



## Correlation to WNCP Curriculum and Grade 5 Classroom Resources

**Note:** *Leaps and Bounds 5/6* is a math intervention resource and therefore does not include new content and concepts being introduced to students for the first time in Grade 6. *Leaps and Bounds* includes content from Grades 3 to 5 that will prepare students who are struggling for work at the Grade 5 or 6 level.

GRADE 5 Core Resources - Correlation with Grade 5 WNCP core resources			INTERVENTION Resources and Outcomes Correlation between <i>Leaps and Bounds 5/6</i> and prerequisite outcomes from WNCP Grades 3 and 4.		
Number					
Grade 5 WNCP Outcomes	Math Focus 5	Math Makes Sense 5	Leaps and Bounds 5/6 Topics	Grade 4 WNCP Outcomes	Grade 3 WNCP Outcomes
1. Represent and describe whole numbers to 1 000 000. [C, CN, V, T]	Chapter 2: Lessons 2.1, 2.2, 2.3, 2.5, Curious Maths, Chapter Review	Unit 2, Launch, p. 35; Unit 2, Lesson 1, pp. 36-38; Unit 2, Lesson 2, pp. 40-42; Unit 2, Lesson 3, pp. 43-47	<b>Representing Whole Numbers</b> <i>Pathway 1:</i> Representing Numbers to 100 000 <i>Pathway 2:</i> Representing Numbers to 10 000 <i>Pathway 3:</i> Representing Numbers to 1000 <i>Pathway 4:</i> Multiplying and Dividing by 10s <b>Comparing Whole Numbers</b> <i>Pathway 1:</i> Comparing Numbers to 100 000 <i>Pathway 2:</i> Comparing Numbers to 10 000 <i>Pathway 3:</i> Comparing Numbers to 1000	1. Represent and describe whole numbers to 10 000, pictorially and symbolically. [C, CN, V] 2. Compare and order numbers to 10 000. [C, CN]	1. Say the number sequence forward and backward from 0 to 1000 by: • 5s, 10s or 100s using any starting point • 3s using starting points that are multiples of 3 • 4s using starting points that are multiples of 4 • 25s using starting points that are multiples of 25. [C, CN, ME] 2. Represent and describe numbers to 1000, concretely, pictorially and symbolically. [C, CN, V] 3. Compare and order numbers to 1000. [CN, R, V] 4. Estimate quantities less than 1000 using referents. [ME, PS, R, V] 5. Illustrate, concretely and pictorially, the meaning of place value for numerals to 1000. [C, CN, R, V]

Number					
Grade 5 WNCP Outcomes	Math Focus 5	Math Makes Sense 5	Leaps and Bounds 5/6 Topics	Grade 4 WNCP Outcomes	Grade 3 WNCP Outcomes
<p>2. Use estimation strategies including:</p> <ul style="list-style-type: none"> <li>• front-end rounding</li> <li>• compensation</li> <li>• compatible numbers</li> </ul> <p>in problem-solving contexts. [C, CN, ME, PS, R, V]</p>	<p>Chapter 2: Lessons 2.4, 2.5, 2.9, Curious Math (Keep on Doubling), Chapter Review</p> <p>Chapter 3: Lessons 3.1, 3.2, 3.3, 3.8, Math Game, Chapter Review</p> <p>Chapter 6: Lessons 6.7, 6.11, Math Game, Chapter Review, Chapter Task</p> <p>Chapter 9: Lessons 9.4, 9.7, 9.8, Chapter Review, Chapter Task</p>	<p>Unit 2, Lesson 4, pp. 48-52; Unit 2, Lesson 5, pp. 53-56; Unit 2, Lesson 6, pp. 57-59; Unit 2, Lesson 7, pp. 60-63; Unit 2, Lesson 8, pp. 64, 65; Unit 2, Unit Problem, pp. 68, 69; Unit 3, Lesson 4, pp. 84-87; Unit 3, Lesson 7, pp. 97-99</p>	<p><b>Adding and Subtracting</b></p> <p><i>Pathway 1: Different Numbers of Digits</i></p> <p><i>Pathway 2: Same Number of Digits</i></p> <p><i>Pathway 3: Using Mental Math to Subtract</i></p> <p><i>Pathway 4: Using Mental Math to Add</i></p> <p><b>Relating Situations to Operations</b></p> <p><i>Pathway 3: Subtraction Situations</i></p>	<p>3. Demonstrate an understanding of addition of numbers with answers to 10 000 and their corresponding subtractions (limited to 3 and 4-digit numerals) by:</p> <ul style="list-style-type: none"> <li>• using personal strategies for adding and subtracting</li> <li>• estimating sums and differences</li> <li>• solving problems involving addition and subtraction. [C, CN, ME, PS, R]</li> </ul> <p>4. Explain the properties of 0 and 1 for multiplication, and the property of 1 for division. [C, CN, R]</p> <p>5. Describe and apply mental mathematics strategies, such as:</p> <ul style="list-style-type: none"> <li>• skip counting from a known fact</li> <li>• using doubling or halving</li> <li>• using doubling or halving and adding or subtracting one more group</li> <li>• using patterns in the 9s facts</li> <li>• using repeated doubling to determine basic multiplication facts to <math>9 \times 9</math> and related division facts. [C, CN, ME, PS, R]</li> </ul>	<p>6. Describe and apply mental mathematics strategies for adding two 2-digit numerals, such as:</p> <ul style="list-style-type: none"> <li>• adding from left to right</li> <li>• taking one addend to the nearest multiple of ten and then compensating</li> <li>• using doubles. [C, ME, PS, R, V]</li> </ul> <p>7. Describe and apply mental mathematics strategies for subtracting two 2-digit numerals, such as:</p> <ul style="list-style-type: none"> <li>• taking the subtrahend to the nearest multiple of ten and then compensating</li> <li>• thinking of addition</li> <li>• using doubles. [C, ME, PS, R, V]</li> </ul> <p>8. Apply estimation strategies to predict sums and differences of two 2-digit numerals in a problem solving context. [C, ME, PS, R]</p> <p>9. Demonstrate an understanding of addition and subtraction of numbers with answers to 1000 (limited to 1, 2 and 3-digit numerals) by:</p> <ul style="list-style-type: none"> <li>• using personal strategies for adding and subtracting with and without the support of manipulatives</li> <li>• creating and solving problems in contexts that involve addition and subtraction of numbers concretely, pictorially and symbolically. [C, CN, ME, PS, R]</li> </ul> <p>10. Apply mental mathematics strategies and number properties, such as:</p> <ul style="list-style-type: none"> <li>• using doubles</li> <li>• making 10</li> <li>• using the commutative property</li> <li>• using the property of zero</li> <li>• thinking addition for subtraction to recall basic addition facts to 18 and related subtraction facts. [C, CN, ME, R, V]</li> </ul>

Number					
Grade 5 WNCP Outcomes	Math Focus 5	Math Makes Sense 5	Leaps and Bounds 5/6 Topics	Grade 4 WNCP Outcomes	Grade 3 WNCP Outcomes
<p><b>3.</b> Apply mental mathematics strategies and number properties, such as:</p> <ul style="list-style-type: none"> <li>• skip counting from a known fact</li> <li>• using doubling or halving</li> <li>• using patterns in the 9s facts</li> <li>• using repeated doubling or halving to determine answers for basic multiplication facts to 81 and related division facts.</li> </ul> <p>[C, CN, ME, R, V]</p> <p><b>4.</b> Apply mental mathematics strategies for multiplication, such as:</p> <ul style="list-style-type: none"> <li>• annexing then adding zero</li> <li>• halving and doubling</li> <li>• using the distributive property.</li> </ul> <p>[C, ME, R]</p> <p><b>5.</b> Demonstrate an understanding of multiplication (2-digit by 2-digit) to solve problems.</p> <p>[C, CN, PS, V]</p> <p><b>6.</b> Demonstrate, with and without concrete materials, an understanding of division (3-digit by 1-digit) and interpret remainders to solve problems.</p> <p>[C, CN, PS]</p>	<p>Chapter 6 Chapter 9</p>	<p>Unit 3 Unit 5, Lesson 9, pp. 194-196</p>	<p><b>Multiplying Whole Numbers</b>  <i>Pathway 1:</i> Multiplying Two-Digit Numbers  <i>Pathway 2:</i> Multiplying by One-Digit Numbers  <i>Pathway 3:</i> Multiplication Fact Strategies</p> <p><b>Dividing Whole Numbers</b>  <i>Pathway 1:</i> Dividing Three-Digit Numbers  <i>Pathway 2:</i> Dividing Two-Digit Numbers  <i>Pathway 3:</i> Division Fact Strategies</p> <p><b>Relating Situations to Operations</b>  <i>Pathway 1:</i> Division Situations  <i>Pathway 2:</i> Multiplication Situations</p>	<p><b>6.</b> Demonstrate an understanding of multiplication (2-or 3-digit by 1-digit) to solve problems by:</p> <ul style="list-style-type: none"> <li>• using personal strategies for multiplication with and without concrete materials</li> <li>• using arrays to represent multiplication</li> <li>• connecting concrete representations to symbolic representations</li> <li>• estimating products.</li> </ul> <p>[C, CN, ME, PS, R, V]</p> <p><b>7.</b> Demonstrate an understanding of division (1-digit divisor and up to 2-digit dividend) to solve problems by:</p> <ul style="list-style-type: none"> <li>• using personal strategies for dividing with and without concrete materials</li> <li>• estimating quotients</li> <li>• relating division to multiplication.</li> </ul> <p>[C, CN, ME, PS, R, V]</p>	<p><b>11.</b> Demonstrate an understanding of multiplication to <math>5 \times 5</math> by:</p> <ul style="list-style-type: none"> <li>• representing and explaining multiplication using equal grouping and arrays</li> <li>• creating and solving problems in context that involve multiplication</li> <li>• modelling multiplication using concrete and visual representations, and recording the process symbolically</li> <li>• relating multiplication to repeated addition</li> <li>• relating multiplication to division.</li> </ul> <p>[C, CN, PS, R]</p> <p><b>12.</b> Demonstrate an understanding of division by:</p> <ul style="list-style-type: none"> <li>• representing and explaining division using equal sharing and equal grouping</li> <li>• creating and solving problems in context that involve equal sharing and equal grouping</li> <li>• modelling equal sharing and equal grouping using concrete and visual representations, and recording the process symbolically</li> <li>• relating division to repeated subtraction</li> <li>• relating division to multiplication.</li> </ul> <p>(limited to division related to multiplication facts up to <math>5 \times 5</math>)</p> <p>[C, CN, PS, R]</p>

Number					
Grade 5 WNCP Outcomes	Math Focus 5	Math Makes Sense 5	Leaps and Bounds 5/6 Topics	Grade 4 WNCP Outcomes	Grade 3 WNCP Outcomes
<p><b>7.</b> Demonstrate an understanding of fractions by using concrete and pictorial representations to:</p> <ul style="list-style-type: none"> <li>• create sets of equivalent fractions</li> <li>• compare fractions with like and unlike denominators.</li> </ul> <p>[C, CN, PS, R, V]</p>	<p>Chapter 7: Lessons 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, Curious Math, Math Games, Chapter Review, Chapter Task</p>	<p>Unit 5, Lesson 1, pp. 166-169; Unit 5, Lesson 2, pp. 170-173; Unit 5, Lesson 3, pp. 174, 175</p>	<p><b>Representing Fractions</b> <i>Pathway 3:</i> Proper Fractions: Parts of Sets <i>Pathway 4:</i> Proper Fractions: Parts of Wholes <b>Comparing Fractions</b> <i>Pathway 2:</i> Equivalent Fractions <i>Pathway 3:</i> Comparing: Same Numerators <i>Pathway 4:</i> Comparing: Same Denominators <i>Pathway 5:</i> Comparing Fractions to <math>\frac{1}{2}</math> and 1</p>	<p><b>8.</b> Demonstrate an understanding of fractions less than or equal to one by using concrete and pictorial representations to:</p> <ul style="list-style-type: none"> <li>• name and record fractions for the parts of a whole or a set</li> <li>• compare and order fractions</li> <li>• model and explain that for different wholes, two identical fractions may not represent the same quantity</li> <li>• provide examples of where fractions are used.</li> </ul> <p>[C, CN, PS, R, V]</p>	<p><b>13.</b> Demonstrate an understanding of fractions by:</p> <ul style="list-style-type: none"> <li>• explaining that a fraction represents a part of a whole</li> <li>• describing situations in which fractions are used</li> <li>• comparing fractions of the same whole with like denominators</li> </ul> <p>[C, CN, ME, R, V]</p>
<p><b>8.</b> Describe and represent decimals (tenths, hundredths, thousandths) concretely, pictorially and symbolically. [C, CN, R, V]</p> <p><b>9.</b> Relate decimals to fractions (to thousandths) [CN, R, V]</p> <p><b>10.</b> Compare and order decimals (to thousandths) by using:</p> <ul style="list-style-type: none"> <li>• benchmarks</li> <li>• place value</li> <li>• equivalent decimals.</li> </ul> <p>[CN, R, V]</p>	<p>Chapter 2: Lessons 2.6, 2.7, 2.8, 2.9, 2.10, Math Game, Chapter Review Chapter 7: Lessons 7.6, 7.7, 7.8, Math Game, Chapter Review</p>	<p>Unit 5, Lesson 4, pp. 176-179; Unit 5, Lesson 5, pp. 180-182; Unit 5, Lesson 6, pp. 183-186; Unit 5, Lesson 7, pp. 187-190 Unit 5, Lesson 8, pp. 191-193</p>	<p><b>Representing Decimals</b> <i>Pathway 1:</i> Representing Thousandths <i>Pathway 2:</i> Representing Hundredths <i>Pathway 3:</i> Representing Tenths <b>Comparing Decimals</b> <i>Pathway 1:</i> Comparing Mixed Decimals <i>Pathway 2:</i> Comparing Thousandths <i>Pathway 3:</i> Comparing Tenths and Hundredths</p>	<p><b>9.</b> Describe and represent decimals (tenths and hundredths) concretely, pictorially and symbolically. [C, CN, R, V]</p> <p><b>10.</b> Relate decimals to fractions (to hundredths). [CN, R, V]</p>	

<b>Number</b>					
<b>Grade 5 WNCP Outcomes</b>	<b>Math Focus 5</b>	<b>Math Makes Sense 5</b>	<b>Leaps and Bounds 5/6 Topics</b>	<b>Grade 4 WNCP Outcomes</b>	<b>Grade 3 WNCP Outcomes</b>
<p>11. Demonstrate an understanding of addition and subtraction of decimals (limited to thousandths). [C, CN, PS, R, V]</p>	<p>Chapter 3: Lessons 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, Curious Math, Math Game, Chapter Review, Chapter Task</p>	<p>Unit 5, Lesson 10, pp. 197-199; Unit 5, Lesson 11, pp. 200-203; Unit 5, Lesson 12, pp. 205-209; Unit 5, Lesson 13, pp. 211-215</p>	<p><b>Decimal Computation</b> <i>Pathway 1:</i> Multiply and Divide by 10 or 100 <i>Pathway 2:</i> Add and Subtract to Thousandths <i>Pathway 3:</i> Add and Subtract Thousandths <i>Pathway 4:</i> Add and Subtract to Hundredths <i>Pathway 5:</i> Add and Subtract Tenths or Hundredths</p>	<p>11. Demonstrate an understanding of addition and subtraction of decimals (limited to hundredths) by:</p> <ul style="list-style-type: none"> <li>• using compatible numbers</li> <li>• estimating sums and differences</li> <li>• using mental math strategies to solve problems. [C, ME, PS, R, V]</li> </ul>	
<b>Patterns and Relations: Patterns</b>					
<p>1. Determine the pattern rule to make predictions about subsequent elements. [C, CN, PS, R, V]</p>	<p>Chapter 1: Lessons 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, Curious Math, Chapter Review, Chapter Task</p>	<p>Unit 1, Launch, pp. 4, 5; Unit 1, Lesson 1, pp. 6-8; Unit 1, Lesson 2, pp. 9-12; Unit 1, Lesson 3, pp. 13-16; Unit 1, Lesson 4, pp. 18, 19</p>	<p><b>Patterns</b> <i>Pathway 1:</i> Using Pattern Rules <i>Pathway 2:</i> Growing and Shrinking Patterns</p>	<p>1. Identify and describe patterns found in tables and charts, including a multiplication chart. [C, CN, PS, V] 2. Reproduce a pattern shown in a table or chart using concrete materials. [C, CN, V] 3. Represent and describe patterns and relationships using charts and tables to solve problems. [C, CN, PS, R, V]</p>	<p>1. Demonstrate an understanding of increasing patterns by:</p> <ul style="list-style-type: none"> <li>• describing</li> <li>• extending</li> <li>• comparing</li> <li>• creating patterns using manipulatives, diagrams, sounds and actions (numbers to 1000). [C, CN, PS, R, V]</li> </ul> <p>2. Demonstrate an understanding of decreasing patterns by:</p> <ul style="list-style-type: none"> <li>• describing</li> <li>• extending</li> <li>• comparing</li> <li>• creating patterns using manipulatives, diagrams, sounds and actions (numbers to 1000). [C, CN, PS, R, V]</li> </ul>

Variables and Equations					
Grade 5 WNCP Outcomes	Math Focus 5	Math Makes Sense 5	Leaps and Bounds 5/6 Topics	Grade 4 WNCP Outcomes	Grade 3 WNCP Outcomes
<p>2. Solve problems involving single-variable, one-step equations with whole number coefficients and whole number solutions. [C, CN, PS, R]</p>	<p>Chapter 1: Lessons 1.7, 1.8, Math Game, Chapter Review, Chapter Task Chapter 3: Lessons 3.3, 3.4</p>	<p>Unit 1, Lesson 5, pp. 20-22; Unit 1, Lesson 6, pp. 23-25; Unit 1, Lesson 7, pp. 26-28</p>	<p><b>Equality</b> <i>Pathway 1: Using Algebra</i> <i>Pathway 2: Solving Equations</i></p>	<p>4. Identify and explain mathematical relationships using charts and diagrams to solve problems. [CN, PS, R, V] 5. Express a given problem as an equation in which a symbol is used to represent an unknown number. [CN, PS, R] 6. Solve one-step equations involving a symbol to represent an unknown number. [C, CN, PS, R, V]</p>	<p>3. Solve one-step addition and subtraction equations involving symbols representing an unknown number. [C, CN, PS, R, V]</p>
Shape and Space: Measurement					
<p>1. Design and construct different rectangles given either perimeter or area, or both (whole numbers) and draw conclusions. [C, CN, PS, R, V] 2. Demonstrate an understanding of measuring length (mm) by: • selecting and justifying referents for the unit mm • modelling and describing the relationship between mm and cm units, and between mm and m units. [C, CN, ME, PS, R, V]</p>	<p>Chapter 8: Lessons 8.1, 8.2, 8.3, 8.4, Curious Math, Chapter Review, Chapter Task</p>	<p>Unit 4, Lesson 1, pp. 122-125; Unit 4, Lesson 2, pp. 126, 127; Unit 4, Lesson 3, pp. 128-130; Unit 4, Lesson 4, pp. 132-134 Unit 5, Lesson 8, pp. 191-193</p>	<p><b>Length</b> <i>Pathway 1: Perimeter of a Rectangle</i> <i>Pathway 2: Perimeter: Using Standard Units</i> <i>Pathway 3: Length: Using Standard Units</i> <b>Area</b> <i>Pathway 1: Area of a Rectangle</i> <i>Pathway 2: Using Standard Units of Area</i></p>	<p>3. Demonstrate an understanding of area of regular and irregular 2-D shapes by: • recognizing that area is measured in square units • selecting and justifying referents for the units <math>\text{cm}^2</math> or <math>\text{m}^2</math> • estimating area by using referents for <math>\text{cm}^2</math> or <math>\text{m}^2</math> • determining and recording area (<math>\text{cm}^2</math> or <math>\text{m}^2</math>) • constructing different rectangles for a given area (<math>\text{cm}^2</math> or <math>\text{m}^2</math>) in order to demonstrate that many different rectangles may have the same area. [C, CN, ME, PS, R, V]</p>	<p>3. Demonstrate an understanding of measuring length (cm, m) by: • selecting and justifying referents for the units cm and m • modelling and describing the relationship between the units cm and m • estimating length using referents • measuring and recording length, width and height. [C, CN, ME, PS, R, V] 5. Demonstrate an understanding of perimeter of regular and irregular shapes by: • estimating perimeter using referents for centimetre or metre • measuring and recording perimeter (cm, m) • constructing different shapes for a given perimeter (cm, m) to demonstrate that many shapes are possible for a perimeter. [C, ME, PS, R, V]</p>



<b>Variables and Equations</b>					
<b>Grade 5 WNCP Outcomes</b>	<b>Math Focus 5</b>	<b>Math Makes Sense 5</b>	<b>Leaps and Bounds 5/6 Topics</b>	<b>Grade 4 WNCP Outcomes</b>	<b>Grade 3 WNCP Outcomes</b>
<p><b>3.</b> Demonstrate an understanding of volume by:</p> <ul style="list-style-type: none"> <li>• selecting and justifying referents for <math>\text{cm}^3</math> or <math>\text{m}^3</math> units</li> <li>• estimating volume by using referents for <math>\text{cm}^3</math> or <math>\text{m}^3</math></li> <li>• measuring and recording volume (<math>\text{cm}^3</math> or <math>\text{m}^3</math>)</li> <li>• constructing rectangular prisms for a given volume. [C, CN, ME, PS, R, V]</li> </ul> <p><b>4.</b> Demonstrate an understanding of capacity by:</p> <ul style="list-style-type: none"> <li>• describing the relationship between mL and L</li> <li>• selecting and justifying referents for mL or L units</li> <li>• estimating capacity by using referents for mL or L</li> <li>• measuring and recording capacity (mL or L). [C, CN, ME, PS, R, V]</li> </ul>	<p>Chapter 8: Lessons 8.5, Math Game, 8.6, 8.7, 8.8, 8.9, 8.10, Math Game, Chapter Review, Chapter Task</p>	<p>Unit 4, Lesson 5, pp. 135-137; Unit 4, Lesson 6, pp. 138-141; Unit 4, Lesson 7, pp. 142-144; Unit 4, Lesson 8, pp. 145-147; Unit 4, Lesson 9, pp. 148-150; Unit 4, Lesson 10, pp. 151-154; Unit 4, Lesson 11, pp. 155-157</p>	<p><b>Volume and Capacity</b>  <i>Pathway 1:</i> Volume Related to Area of Base  <i>Pathway 2:</i> Relating Volume and Capacity  <i>Pathway 3:</i> Volume: Cubic Centimetres  <i>Pathway 4:</i> Capacity: Litres or Millilitres</p>		
			<p><b>Time</b>  <i>Pathway 1:</i> Using Elapsed Time  <i>Pathway 2:</i> Reading a Clock</p>	<p><b>1.</b> Read and record time using digital and analog clocks, including 24-hour clocks. [C, CN, V]  <b>2.</b> Read and record calendar dates in a variety of formats. [C, V]</p>	<p><b>1.</b> Relate the passage of time to common activities using non-standard and standard units (minutes, hours, days, weeks, months, years). [CN, ME, R]  <b>2.</b> Relate the number of seconds to a minute, the number of minutes to an hour and the number of days to a month in a problem-solving context. [C, CN, PS, R, V]</p>

Variables and Equations					
Grade 5 WNCP Outcomes	Math Focus 5	Math Makes Sense 5	Leaps and Bounds 5/6 Topics	Grade 4 WNCP Outcomes	Grade 3 WNCP Outcomes
			<b>Mass</b> <i>Pathway 1:</i> Mass: Kilograms and Grams <i>Pathway 2:</i> Mass: Using One Standard Unit		<b>4.</b> Demonstrate an understanding of measuring mass (g, kg) by: <ul style="list-style-type: none"> <li>• selecting and justifying referents for the units g and kg</li> <li>• modelling and describing the relationship between the units g and kg</li> <li>• estimating mass using referents</li> <li>• measuring and recording mass. [C, CN, ME, PS, R, V]</li> </ul>
			<b>Angles</b> <i>Pathway 1:</i> Measuring and Drawing Angles <i>Pathway 2:</i> Comparing Angles		
3-D Objects and 2-D Shapes					
<b>5.</b> Describe and provide examples of edges and faces of 3-D objects, and sides of 2-D shapes that are: <ul style="list-style-type: none"> <li>• parallel</li> <li>• intersecting</li> <li>• perpendicular</li> <li>• vertical</li> <li>• horizontal.</li> </ul> [C, CN, R, T, V] <b>6.</b> Identify and sort quadrilaterals, including: <ul style="list-style-type: none"> <li>• rectangles</li> <li>• squares</li> <li>• trapezoids</li> <li>• parallelograms</li> <li>• rhombuses</li> </ul> according to their attributes. [C, R, V]	Chapter 11: Lessons 11.1, 11.2, 11.3, 11.4, 11.5, Math Game, Curious Math, Chapter Review, Chapter Task	Unit 6, Lesson 1, pp. 222-225; Unit 6, Lesson 2, pp. 226-229; Unit 6, Lesson 3, pp. 230-233; Unit 6, Lesson 4, pp. 234-239; Unit 6, Lesson 5, pp. 240, 241 Unit 6, Lesson 6, pp. 242-244; Unit 6, Lesson 7, pp. 246-249	<b>3-D Shapes</b> <i>Pathway 1:</i> Modelling with Nets <i>Pathway 2:</i> Modelling with Skeletons <i>Pathway 3:</i> Modelling with Solid Shapes  <b>2-D Shapes</b> <i>Pathway 1:</i> Classifying Triangles <i>Pathway 2:</i> Classifying Quadrilaterals <i>Pathway 3:</i> Line Symmetry	<b>4.</b> Describe and construct rectangular and triangular prisms. [C, CN, R, V] <b>5.</b> Demonstrate an understanding of line symmetry by: <ul style="list-style-type: none"> <li>• identifying symmetrical 2-D shapes</li> <li>• creating symmetrical 2-D shapes</li> <li>• drawing one or more lines of symmetry in a 2-D shape. [C, CN, V]</li> </ul>	<b>6.</b> Describe 3-D objects according to the shape of the faces, and the number of edges and vertices. [C, CN, PS, R, V] <b>7.</b> Sort regular and irregular polygons, including: <ul style="list-style-type: none"> <li>• triangles</li> <li>• quadrilaterals</li> <li>• pentagons</li> <li>• hexagons</li> <li>• octagons</li> </ul> according to the number of sides. [C, CN, R, V]



<b>Transformations</b>					
<b>Grade 5 WNCP Outcomes</b>	<b>Math Focus 5</b>	<b>Math Makes Sense 5</b>	<b>Leaps and Bounds 5/6 Topics</b>	<b>Grade 4 WNCP Outcomes</b>	<b>Grade 3 WNCP Outcomes</b>
<p><b>7.</b> Perform a single transformation (translation, rotation, or reflection) of a 2-D shape (with and without technology) and draw and describe the image. [C, CN, T, V]</p> <p><b>8.</b> Identify a single transformation, including a translation, rotation and reflection of 2-D shapes. [C, T, V]</p>	<p>Chapter 5: Lessons 5.1, 5.2, 5.3, 5.4, 5.5, Math Game, Curious Math, Chapter Review, Chapter Task</p>	<p>Unit 8, Lesson 1, pp. 296-299; Unit 8, Lesson 3, pp. 302-305; Unit 8, Lesson 4, pp. 306-310; Unit 8, Lesson 5, pp. 311-313</p>	<p><b>Transformations</b>  <i>Pathway 1:</i> Single Rotations  <i>Pathway 2:</i> Multiple Reflections  <i>Pathway 3:</i> Multiple Translations  <i>Pathway 4:</i> Single Reflections and Translations</p>		
			<p><b>Location and Movement</b>  <i>Pathway 1:</i> Using Cardinal Directions on Grids  <i>Pathway 2:</i> Locating Objects on Grids</p>		
<b>Statistics and Probability: Data Analysis</b>					
<p><b>1.</b> Differentiate between first-hand and second-hand data. [C, R, T, V]</p>	<p>Chapter 4: Lessons 4.1, 4.2, 4.3, Math Game, Chapter Review</p>	<p>Unit 7, Lesson 1, pp. 258-260</p>			
<p><b>2.</b> Construct and interpret double bar graphs to draw conclusions. [C, PS, R, T, V]</p>	<p>Chapter 4: Lessons 4.4, 4.5, 4.6, Curious Math, Chapter Review</p>	<p>Unit 7, Lesson 2, pp. 261-265; Unit 7, Lesson 3, pp. 266-269; Unit 7, Technology, pp. 270, 271</p>	<p><b>Summarizing Data</b>  <i>Pathway 1:</i> Data: Using the Mean  <i>Pathway 2:</i> Data: Using the Median and Mode  <b>Displaying Data</b>  <i>Pathway 1:</i> Data: Using Broken-Line Graphs  <i>Pathway 2:</i> Data: Using Stem-and-Leaf Plots  <i>Pathway 3:</i> Data: Using Double Bar Graphs  <i>Pathway 4:</i> Data: Using Line Plots</p>	<p><b>1.</b> Demonstrate an understanding of many-to-one correspondence. [C, R, T, V]  <b>2.</b> Construct and interpret pictographs and bar graphs involving many-to-one correspondence to draw conclusions. [C, PS, R, V]</p>	<p><b>1.</b> Collect first-hand data and organize it using:  • tally marks  • line plots  • charts  • lists to answer questions. [C, CN, V]  <b>2.</b> Construct, label and interpret bar graphs to solve problems. [PS, R, V]</p>

<b>Chance and Uncertainty</b>					
<b>Grade 5 WNCP Outcomes</b>	<b>Math Focus 5</b>	<b>Math Makes Sense 5</b>	<b>Leaps and Bounds 5/6 Topics</b>	<b>Grade 4 WNCP Outcomes</b>	<b>Grade 3 WNCP Outcomes</b>
<p><b>3.</b> Describe the likelihood of a single outcome occurring using words, such as:</p> <ul style="list-style-type: none"> <li>• impossible</li> <li>• possible</li> <li>• certain.</li> </ul> <p>[C, CN, PS, R]</p> <p><b>4.</b> Compare the likelihood of two possible outcomes occurring using words, such as:</p> <ul style="list-style-type: none"> <li>• less likely</li> <li>• equally likely</li> <li>• more likely.</li> </ul> <p>[C, CN, PS, R]</p>	<p>Chapter 10: Lessons 10.1, 10.2, 10.3, 10.4, 10.5, 10.6, Math Game, Curious Math, Chapter Review, Chapter Task</p>	<p>Unit 7, Lesson 4, pp. 272-275; Unit 7, Lesson 6, pp. 280-283</p>	<p><b>Probability</b> <i>Pathway 1:</i> Probability: Using Numbers <i>Pathway 2:</i> Probability: Using Words</p>		